

Kidney Development and Repair Symposium

February 8-9, 2007

Draft Agenda

February 8, 2007

| | |
|--------------------|---|
| 7:00 – 8:00 | Registration and Continental Breakfast |
| 8:00 – 8:15 | Welcome and Opening Remarks |
| 8:15 – 9:15 | Keynote Address: Kidney Development and Repair: Translational Outlook Joseph Bonventre |
| Session I: | Renal Progenitors and Lineage Progression Greg Dressler, Moderator |
| 9:20 – 9:25 | Specification of Intermediate Mesoderm Tom Schultheiss |
| 9:25 – 9:50 | Specification of Proximal vs. Distal Tubule Rafi Kopan |
| 9:50 – 10:15 | BREAK |
| 10:15 – 10:40 | Cell Lineages in Kidney During Development and Repair Peter Igarashi |
| 10:40 – 11:05 | Paraxial Mesoderm as Source of Renal Progenitors Doris Herzlinger |
| 11:05 – 11:30 | Cell Lineages Greg Dressler |
| 11:30 – 1:00 | LUNCH |
| Session II: | Disease, Development, and Repair Lloyd Cantley, Moderator |
| 1:05 – 1:30 | Regulation of Epithelial Morphology During Development and Repair Lloyd Cantley |
| 1:30 – 1:55 | EMT and Epithelial Repair – EMT as Reversal of MET; BMP vs. TGF β Signaling Eric Neilson |
| 1:55 – 2:20 | Role of Lipocalin-siderophore-iron Complex in Developing and Repairing Tubules Jon Barasch |
| 2:20 – 2:45 | Cholesterol Pathway and Cytoprotection Following Renal Injury Richard Zager |
| 2:45 – 3:10 | Mechanisms of Fibrosis Allison Eddy |
| 3:10 – 3:35 | Developmental Origins of Kidney Disease Lori Woods- <i>Invited</i> |
| 3:35 – 4:00 | BREAK |
| 4:00 – 6:30 | Poster Session |

February 9, 2007

7:00 – 8:00 Continental Breakfast

8:00 – 9:00 **Keynote Address: Developmental Recapitulation by ES Cells**
Dr. Doug Melton-*Invited*

Session III: Kidney Cellular Niches
Melissa Little, Moderator

9:05 – 9:30 Expression of Secreted and Transmembrane Proteins During Kidney Development and in Adult Renal Populations
Melissa Little

9:30 – 9:55 Extracellular Signals Required for Glomerular Development
Sue Quaggin

9:55 – 10:20 Cell/extracellular Matrix Interactions in Kidney
Jeff Miner

10:20 – 10:45 BREAK

10:45 – 11:10 Renal Papilla as a Stem Cell Niche
Qais Al-awqati

11:10 – 11:35 Role of FGFs in Regulating Branching and Nephron Number
Carl Bates

11:35 – 12:00 Role of Extracellular Signaling Proteins in Kidney Development
Andy McMahon

12:00 – 1:30 LUNCH

1:30 – 11:45 Hot Topic Speaker #1

1:45 – 2:00 Hot Topic Speaker #2

2:00 – 2:15 Hot Topic Speaker #3

Session IV: Looking Forward to Translation
Joe Bonventre, Moderator

2:20 – 2:45 Tissue Engineering: Considerations and Uses
Linda Griffith

2:45 – 3:10 Analysis of Gradients and Matrix in Tissue Engineered Models
Melody Swartz-*Invited*

3:10 – 3:35 Wound Repair without Scarring
Mark Ferguson

3:30 – 4:00 BREAK

4:00 – 5:00 **Panel Discussion:** What are scientific requirements for development of renal cell therapies? How should developmental and injury/repair studies inform each other? In what ways might tissue engineered models illuminate disease processes? Are tissue engineered/cell therapies feasible for the kidney?